

# EUROPEAN PATENT OFFICE

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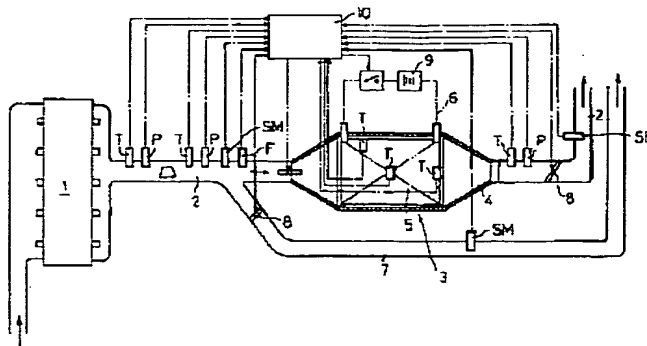
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INVENTOR : SUZUKI SHOGO;

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TITLE : DIESEL PARTICULATE FILTER MADE  
OF ELECTRIC ALLY CONDUCTIVE  
CERAMICS AND MANUFACTURE  
THEREOF



ABSTRACT : PURPOSE: To uniformly combust particulates, by making  $\text{LaMnO}_3$  into a porous body for a filter which is used for a diesel particulate filter (DPF) made of electrically conductive ceramics.

CONSTITUTION: A particulate purifying device 3 is installed in an exhaust passage 2 for exhausting exhaust gas from a diesel engine 1. In this purifying device 3, a DPF 5 is incorporated into a casing 4, and a heating circuit 6 for combusting the collected particulate is provided. When the DPF 5 which has its filter porous body made of  $\text{LaMnO}_3$ , is heated by carrying current to both the edges of the porous body which has caught the particulate such as carbon and smoke in the exhaust gas, the particulates are combusted uniformly and discarded and the inside of the porous body becomes free from the uncombusted particulate. Further, since the whole of the porous body made of the electric conductive ceramics is uniformly heated, the generation of breakage due to thermal stress can be prevented.

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